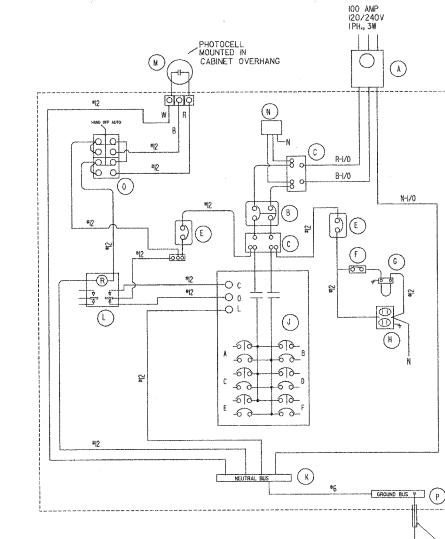
RTE. SECTION COUNTY TOTAL SHEET NO.

\* McHENRY 22 20

STA. TO STA.

FED. ROMO DIST. NO. LLLINDIS FED. ALD PROJECT





PANEL BOARD 1/2" ARBORON MATERIAL

1" DIA. RIGID STEEL CONDUIT TO GROUND ROD ARRAY WITH #2 SOLID BARE

NOTES

DIVISION OF TRANSPORTATION LICHTING CONTROLLER

LOCKING

21/2" DIA. GAL. STEEL

36" × 60" CONCRETE PLATFORM-

CONTROL CABINET - SPECIAL

1. THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3R CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT I OCKING SYSTEM.

STAINLESS STEEL NAME PLATE

CABINET ALUMINUM

2-4" DIA (100 mm) 36" RAD. PVC RACEWAY TO PRECAST HANDHOLE

COPPER WIRE

1" DIA, RIGID STEEL CONDUIT TO GROUND ROD ARRAY WITH #2 SOLID BARE

ALLOY SHEET, 0.125" THICK

- 2. THE CONTRACTOR SHALL REMOVE VEGITATION AND TOPSOIL, LEVEL THE AREA IN FRONT OF THE CONTROL CABINET DOOR AND PLACE LENOTH WISE, PARALLEL TO CONTROL CABINET, A PRECAST PAD. 36"x36"x3" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS SHALL BE INCIDENTAL TO THE CONTROL CABINET.
- 3. CONTROL WIRE SHALL BE #12 AWG. 600V. TYPE "MTW" STRANDED COPPER GRAY SWITCH BOARD WIRE. THE ENDS OF ALL CONTROL WIRES SHALL BE IDENTIFIED.
- 4. THE ELECTRIC METER BOX SHALL BE MOUNTED ON THE SIDE OF THE CONTROL CABINET, NEAR TO THE SERVICE POLE AND/OR AS DIRECTED BY THE ENGINEER.
- 5. ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SOREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WITHOUS SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.

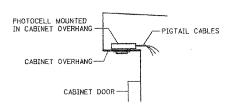
6. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.

R = RED BL = BLUE W = WHITE B = BLACK Y = YELLOW G = GREEN

CONDUIT WITH SERVICE CABLE FROM SERVICE POLE

- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- 8. THE CABINET SHALL BE PRIMED AND PAINTED IN COLOR AS DIRECTED BY THE VILLAGE ENGINEER
- 9. THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUSS CONNECTION AND GREEN FOR GROUND BUSS CONNECTORS.
- 10.ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- 11. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508
  AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL
  PANEL".
- 12. PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. THE HOLDER AND POUCH SHALL BE MOUNTED SO THAT RAIN WATER OR CONDENSED WATER CANNOT ENTER THE POUCH WITH THE CABINET DOOR OPEN. FURNISH A LAMINATED THE APPROVED COPY OF THE "CONTROL CABINET WIRING DIAGRAM".
- 13. THE FABRICATION OF CONCRETE FOUNDATION FOR CONTROLLER SHALL COMPLY TO ARTICLE 836 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN ANCHOR BOLTS LOCATION TEMPLATE FROM THE FABRICATOR OF LIGHTING CONTROLLER
- 14.THE CONTROLLER FABRICATION SHALL COMPLY TO ARTICLE 1068.01 OF THE STANDARD SPECIFICATIONS
- 15.THE CONTROLLER CABINET DOOR SHOULD OPEN AWAY FROM THE STREET

100 AMPERE - 120/240 VOLT. WIRING DIAGRAM



PHOTOCELL IN CABINET
OVERHANG DETAIL
NOT TO SCALE

| DEVICE SCHEDULE |        |  |
|-----------------|--------|--|
| ITEM            | QUANT. | DESCRIPTION  |
| $\bigcirc$ A    | 1      | METER FITTING  |
| В               | 1      | CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC BOLT-ON TYPE, 2- POLE-<br>100 AMPERE, 225 A FRAME, 240Vgc, NON INTERCHANGABLE TRIP, INTERRUPTING<br>CAPACITY OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPERES AT 480 VOLT.   |
| ©               | 2      | SPLICE BLOCK   |
| (D)             |        | RESERVED   |
| E               | 2      | CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 240 V., BOLT-ON TYPE, 15 A. WITH AN INTERUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277 V.   |
| F               | 1      | 20 A. SPST MICRO SWITCH MOUNTED ON A DOOR.   |
| <u>(G)</u>      | 1      | 60 WAFT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX  |
| (H)             | 1      | GFI RECEPTACLE, 120 V., 20 A., PREMIUM SPEC. GRADE, NEMA REFERENCE 5-20R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.  |
| (I)             |        | RESERVED   |
| (-)             | 1      | 100 A CONTACTOR PANEL BOARD INTERIOR, 12 CKT, 1 PH, 3 WIRE, 6-2P/40 A BREAKERS, MOLDED CASE, THERMAL MACNETIC BOLT-ON TYPE, 40 A, 480 A FRAME, 240Vac, NON INTERCHANGABLE TRIP, INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 480 VOLT. |
| K               | 1      | NEUTRAL, COPPER BUSS BAR, PAINTED IN WHITE   |
| L               | 1      | POWER RELAY, 120 VOLT COIL   |
| M               | 1      | PHOTO ELECTRIC CELL, MOUNTED IN CABINET OVERHANG   |
| N               | 1      | SURGE ARRESTOR   |
| 0               | 1      | SELECTOR SWITCH, 3 POSITION, ON-OFF-AUTO   |
| P               | 1      | GROUND COPPER BUSS BAR, PAINTED IN GREEN   |
|                 |        |  |
|                 |        |  |



MOHENRY COUNTY DIVISION OF TRANSPORTATION CITY OF CRYSTAL LAKE INTERSECTION OF GOLF COURSE ROAD WITH ACKMAN ROAD

LIGHTING CONTROLLER, SPECIAL

SCALE: DATE: NOV. 23: 2006 DRAWN BY HKQ CHECKED BY JS

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